MPA 122

MINI TWO CHANNEL AUDIO AMPLIFIER

VERSA® TOOLS

- Compact, two channel amplifier
- Balanced and unbalanced stereo inputs
- Stereo or mono speaker output
- Flexible mounting options
- Tone and input level controls
- Limiter switch for clipping protection
- Remote volume and mute control capability

The Extron MPA 122 is an economical, two channel audio amplifier, featuring efficient, class D amplification technology in a compact enclosure. The MPA 122 is ideal for small integration solutions, offering a convenient way to enhance the audio capabilities of classrooms and other applications.

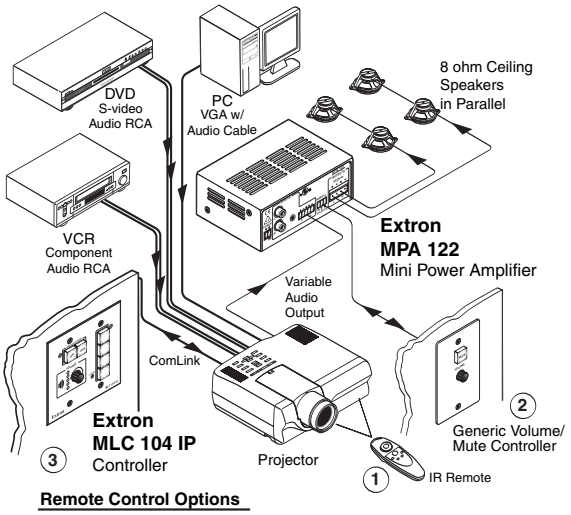
DESCRIPTION

The Extron **MPA 122** Mini Two Channel Audio Amplifier provides stereo amplification for speaker systems in classrooms and other applications requiring compact, economical audio solutions. It is an ideal step-up from a basic classroom system utilizing built-in video projector speakers. The MPA 122 delivers 11 watts (rms) per channel into 4 ohms and 7 watts (rms) into 8 ohms. It is optimized for driving four 8 ohm ceiling speakers, two in parallel per channel.

The MPA 122 accepts balanced and unbalanced stereo inputs, and provides outputs as stereo or dual mono audio signals. Front panel controls are provided for bass, treble, and input level. The front panel also features switches for stereo/dual mono operation and a limiter switch which automatically reduces the gain to prevent distortion (amplifier clipping). The MPA 122 features remote control capability for volume adjustment and muting. Part of the VersaTools® line of small, economical, integrator friendly products, the MPA 122 is housed in a 1U, quarter rack width metal enclosure.

FEATURES

- **Digital audio amplifier** – The MPA 122 features improved class D amplifier technology for high efficiency, and outputs 11 watts (rms) per channel into 4 ohms or 7 watts per channel (rms) into 8 ohms.
- **Balanced and unbalanced audio inputs** – Balanced or unbalanced stereo input is on a captive screw connector. The MPA 122 also includes RCA connectors and a 3.5 mm stereo mini jack for unbalanced input.
- **Stereo or mono speaker outputs** – Speaker output is on a captive screw connector for quick installation.
- **Front panel controls** – Bass, treble, and input level can be easily adjusted from the front panel.
- **Limiter switch** – The limiter switch prevents output distortion (clipping) and potential damage to speakers.
- **Volume and mute remote control** – The MPA 122 can be remotely controlled for volume adjustment (10k pot.) and muting (contact closure) via connectivity to a rear panel, captive screw port.
- **Flexible mounting options** – The MPA 122 is housed in a 1U, quarter rack width metal enclosure and can be mounted above a projector or in a rack.
- **External international power supply** – The autoswitchable external power supply provides worldwide power compatibility (part # 70-380-01).



Remote Control Options

1. IR Remote - (input selection and volume control through projector)
2. Generic Volume/Mute Controller - (direct MPA 122 control)
3. MLC 104 IP Controller - (input selection and volume control through projector)

SPECIFICATIONS

AUDIO

Frequency response	20 Hz to 20 kHz, ±1 dB @ 1 watt output
THD + Noise	15% @ 1 kHz at nominal level (1 watt, 8 ohm load)
S/N	>72 dB at maximum output (unweighted)
Stereo channel separation	>55 dB @ 1 kHz, >45 dB @ 20 kHz
CMRR	>80 dB @ 1 kHz, >70 dB @ 20 kHz
Bass adjustment	±10 dB @ 80 Hz (reference) to 1 kHz
Treble adjustment	±10 dB @ 10 kHz (reference) to 1 kHz

AUDIO INPUT

Number/signal type	1 stereo, balanced/unbalanced input 2 stereo, unbalanced inputs
Connectors	(1) 3.5 mm captive screw connector, 5 pole (1) 3.5 mm mini audio jack (tip, ring, sleeve) 1 pair RCA
Impedance	>18k ohms unbalanced, >24k ohms balanced, DC coupled
Nominal level	+4 dBu (1.23 Vrms) balanced or -10 dBV (316 mVrms) unbalanced
Maximum level	16 dBV (unbalanced), +23 dBu (balanced) at 1%THD+N
Input level sensitivity	-10dBV (316mV) for maximum output (11 watts with a 4 ohm load and level set to maximum) before clipping

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

AUDIO OUTPUT

Number/signal type	1 stereo or 2 mono (2 channels total)
Connectors	(1) 5 mm captive screw connector, 4 pole
Minimum load impedance	4 ohms
Amplifier class	Improved class D
Continuous power with a full load and 1% THD	
At 4 ohms	11 watts (rms) per channel
At 8 ohms	7 watts (rms) per channel
Damping factor	>30

CONTROL/REMOTE — AMPLIFIER

Control port	(1) 3.5 mm captive screw connector, 3 pole
Pin configuration	Pin 1 = 10 V, Pin 2 = variable voltage or mute, Pin 3 = GND

GENERAL

External power supply	100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 3 A regulated
Power input requirements	12 VDC, 3 A
Mounting	With rack-mountable optional 1U rack shelf, part #60-190-01 or 60-604-01; or VersaTools® rack shelf, part #60-190-20 or 60-604-20. Also furniture mountable with optional Mini Under-Desk Mounting Kit, #70-212-01, or above-projector mountable with optional mounting kit, # 70-374-01
Enclosure type	Metal
Enclosure dimensions	1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) 4.3 cm H x 10.9 cm W x 7.6 cm D (Depth excludes connectors.)
Product weight	0.6 lbs (0.3 kg)
Shipping weight	3 lbs (2 kg)
Listings	UL, CUL
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES

Model	Part Number
MPA 122	60-668-01

Specifications are subject to change without notice.

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